RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____ 10/591, 725_____

Source: _____ IFWP _____

Date Processed by STIC: _____ 09/13/2006 _____

ENTERED

IFWP

RAW SEQUENCE LISTING   DATE: 09/13/2006
PATENT APPLICATION: US/10/591,725   TIME: 11:08:53

        Input Set : **A:\021080002U4.txt**
        Output Set: **N:\CRF4\09132006\J591725.raw**

```
 4 <110> APPLICANT: Leonard, Joan
 6 <120> TITLE OF INVENTION: CHICKEN ANEMIA VIRUS VACCINE FROM CELL
 7       LINE
 9 <130> FILE REFERENCE: 02108.0002U4
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/591,725
12 <141> CURRENT FILING DATE: 2006-09-05
14 <150> PRIOR APPLICATION NUMBER: PCT/US05/07148
15 <151> PRIOR FILING DATE: 2005-03-07
17 <150> PRIOR APPLICATION NUMBER: 60/550,573
18 <151> PRIOR FILING DATE: 2004-03-05
20 <160> NUMBER OF SEQ ID NOS: 2
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 2294
26 <212> TYPE: DNA
27 <213> ORGANISM: Chicken anemia virus
29 <400> SEQUENCE: 1
30 gcattccgag tggttactat tccatcacca ttctagcctg tacacagaaa gtcaagatgg     60
31 acgaatcgct cgacttcgct cgcgattcgt cgaaggcggg gggccggagg cccccccggtg    120
32 gccccctcc aacgagtgga gcatgtacag ggggggtacgt catcagtaca ggggggtacg     180
33 tcacaaaaag gcgttcccgt acaggggggt acgtcacgcg tacagggggg tacgtcacag     240
34 ccaatcagaa gctgccacgt tgcgaaagtg acgtttcgaa aatgggcggc gcaagcctct     300
35 ctatatattg agcgcacata ccggtcggca gtaggtatac gcaaggcggt ccgggtggat     360
36 gcacgggaac gacggacaac cggccgctgg gggcagtgaa tcggcgctta gccgagaggg     420
37 gcagcctggg cccagcggag ccgcgcaggg gcaagtaatt tcaaatgaac gctctccaag     480
38 aagatactcc acccggacca tcaacggtgt tcaggccacc aacaagttca cggccgttgg     540
39 aaacccctca ctgcagagag atccggattg gtatcgctgg aattacaatc actctatcgc     600
40 tgtgtggctg cgcgaatgct cgcgctccca cgctaagatc tgcaactgcg gacaattcag     660
41 aaagcactgg tttcaagaat gtgccggact tgaggaccga tcaacccaag cctccctcga     720
42 agaagcgatc ctgcgacccc tccgagtaca gggtaagcga gctaaaagaa agcttgatta     780
43 ccactactcc cagccgaccc cgaaccgcaa gaaggtgtat aagactgtaa gatggcaaga     840
44 cgagctcgca gaccgagagg ccgattttac gccttcagaa gaggacggtg gcaccacctc     900
45 aagcgacttc gacgaagata taaatttcga catcggagga gacagcggta tcgtagacga     960
46 gctttttagga aggcctttca caaccccccgc cccggtacgt atagtgtgag gctgccgaac   1020
47 ccccaatcta ccatgactat ccgcttccaa ggagtcatct ttctcacaga aggactcatt   1080
48 ctgcctaaaa acagcacagc ggggggctat gcagaccaca tgtacggggc gagagtcgcc   1140
49 aagatctctg tgaacctgaa agagttcctg ctagcgtcaa tgaacctgac atacgtgagc   1200
50 aaaatcggag gccccatcgc cggtgagttg attgcggacg ggtctaaatc acaagccgcg   1260
51 gagaactggc ctaattgctg gctgccgcta gataataacg tgccctccgc gacaccatcg   1320
52 gcatggtgga gatgggcctt aatgatgatg cagcccacgg actcttgccg gttctttaat   1380
53 caccctaagc agatgaccct gcaagacatg ggtcgcatgt ttgggggctg gcacctattc   1440
54 cgacacattg aaacccgctt tcagctcctt gccactaaga atgagggatc cttcagcccc   1500
55 gtggcgagtc ttctctccca gggagagtac ctcacgcgtc gggacgatgt taaatacagc   1560
```

RAW SEQUENCE LISTING   DATE: 09/13/2006
PATENT APPLICATION: US/10/591,725   TIME: 11:08:53

Input Set : **A:\021080002U4.txt**
Output Set: **N:\CRF4\09132006\J591725.raw**

```
56 agcgatcacc agaaccggtg gcgaaaaggc gaacaaccga tgacggggggg tattgcttat   1620
57 gcgaccggga aaatgagacc cgacgagcaa cagtaccctg ctatgcccccc agacccccccg  1680
58 atcatcacca gtactacagc gcaaggcacg caagtccgct gcatgaatag cacgcaagct   1740
59 tggtggtcat gggacacata tatgagcttt gcaacactca cagcactcgg tgcacaatgg   1800
60 tcttttcctc caggcaacg ttcagtttct agacggtcct tcaaccacca caaggcgaga    1860
61 ggagccgggg accccaaagg ccagagatgg cacaccctgg tgccgctcgg cacggagacc   1920
62 atcaccgaca gctacatggg agcacccgca tcagagctgg acacaaattt ctttacgctt   1980
63 tacgtagcgc aaggtacaaa taagtcgcag cagtacaagt tcggcacagc tacatacgcg   2040
64 ctaaaggagc cggtaatgaa gagcgattca tgggcagtgg tacgcgtcca gtcggtctgg   2100
65 caactgggta acaggcagag accatacccca tgggacgtca actgggccaa cagcaccatg   2160
66 tactgggggcg ggcagccctg aaaaggggggg gggctaaagc ccccccttga acccccccct   2220
67 ggggggggatt ccccccccaga ccccccccttt aaatagcact caataaacgc agcaattggc   2280
68 tttatcgcac aatc                                                      2294
```

70 <210> SEQ ID NO: 2
71 <211> LENGTH: 786
72 <212> TYPE: PRT
73 <213> ORGANISM: Chicken anemia virus

75 <400> SEQUENCE: 2
76 Met Ala Arg Arg Ala Arg Arg Pro Arg Gly Arg Phe Tyr Ala Phe Arg
77 1   5   10   15
78 Arg Gly Arg Trp His His Leu Lys Arg Leu Arg Arg Arg Tyr Lys Phe
79   20   25   30
80 Arg His Arg Arg Arg Gln Arg Tyr Arg Arg Arg Ala Phe Arg Lys Ala
81   35   40   45
82 Phe His Asn Pro Arg Pro Gly Thr Tyr Ser Val Arg Leu Pro Asn Pro
83   50   55   60
84 Gln Ser Thr Met Thr Ile Arg Phe Gln Gly Val Ile Phe Leu Thr Glu
85 65   70   75   80
86 Gly Leu Ile Leu Pro Lys Asn Ser Thr Ala Gly Gly Tyr Ala Asp His
87   85   90   95
88 Met Tyr Gly Ala Arg Val Ala Lys Ile Ser Val Asn Leu Lys Glu Phe
89   100   105   110
90 Leu Leu Ala Ser Met Asn Leu Thr Tyr·Val Ser Lys Ile Gly Gly Pro
91   115   120   125
92 Ile Ala Gly Glu Leu Ile Ala Asp Gly Ser Lys Ser Gln Ala Ala Glu
93   130   135   140
94 Asn Trp Pro Asn Cys Trp Leu Pro Leu Asp Asn Asn Val Pro Ser Ala
95 145   150   155   160
96 Thr Pro Ser Ala Trp Trp Arg Trp Ala Leu Met Met Met Gln Pro Thr
97   165   170   175
98 Asp Ser Cys Arg Phe Phe Asn His Pro Lys Gln Met Thr Leu Gln Asp
99   180   185   ·   190
100 Met Gly Arg Met Phe Gly Gly Trp His Leu Phe Arg His Ile Glu Thr
101   195   200   205
102 Arg Phe Gln Leu Leu Ala Thr Lys Asn Glu Gly Ser Phe Ser Pro Val
103   210   215   220
104 Ala Ser Leu Leu Ser Gln Gly Glu Tyr Leu Thr Arg Arg Asp Asp Val
105 225   230   235   240
106 Lys Tyr Ser Ser Asp His Gln Asn Arg Trp Arg Lys Gly Glu Gln Pro
```

```
107                 245                 250                 255
108 Met Thr Gly Gly Ile Ala Tyr Ala Thr Gly Lys Met Arg Pro Asp Glu
109                 260                 265                 270
110 Gln Gln Tyr Pro Ala Met Pro Pro Asp Pro Pro Ile Ile Thr Ser Thr
111             275                 280                 285
112 Thr Ala Gln Gly Thr Gln Val Arg Cys Met Asn Ser Thr Gln Ala Trp
113         290                 295                 300
114 Trp Ser Trp Asp Thr Tyr Met Ser Phe Ala Thr Leu Thr Ala Leu Gly
115 305                 310                 315                 320
116 Ala Gln Trp Ser Phe Pro Pro Gly Gln Arg Ser Val Ser Arg Arg Ser
117                 325                 330                 335
118 Phe Asn His His Lys Ala Arg Gly Ala Gly Asp Pro Lys Gly Gln Arg
119             340                 345                 350
120 Trp His Thr Leu Val Pro Leu Gly Thr Glu Thr Ile Thr Asp Ser Tyr
121         355                 360                 365
122 Met Gly Ala Pro Ala Ser Glu Leu Asp Thr Asn Phe Phe Thr Leu Tyr
123         370                 375                 380
124 Val Ala Gln Gly Thr Asn Lys Ser Gln Gln Tyr Lys Phe Gly Thr Ala
125 385                 390                 395                 400
126 Thr Tyr Ala Leu Lys Glu Pro Val Met Lys Ser Asp Ser Trp Ala Val
127             405                 410                 415
128 Val Arg Val Gln Ser Val Trp Gln Leu Gly Asn Arg Gln Arg Pro Tyr
129             420                 425                 430
130 Pro Trp Asp Val Asn Trp Ala Asn Ser Thr Met Tyr Trp Gly Gly Gln
131         435                 440                 445
132 Pro Met His Gly Asn Asp Gly Gln Pro Ala Ala Gly Gly Ser Glu Ser
133         450                 455                 460
134 Ala Leu Ser Arg Glu Gly Gln Pro Gly Pro Ser Gly Ala Ala Gln Gly
135 465                 470                 475                 480
136 Gln Val Ile Ser Asn Glu Arg Ser Pro Arg Arg Tyr Ser Thr Arg Thr
137             485                 490                 495
138 Ile Asn Gly Val Gln Ala Thr Asn Lys Phe Thr Ala Val Gly Asn Pro
139             500                 505                 510
140 Ser Leu Gln Arg Asp Pro Asp Trp Tyr Arg Trp Asn Tyr Asn His Ser
141             515                 520                 525
142 Ile Ala Val Trp Leu Arg Glu Cys Ser Arg Ser His Ala Lys Ile Cys
143         530                 535                 540
144 Asn Cys Gly Gln Phe Arg Lys His Trp Phe Gln Glu Cys Ala Gly Leu
145 545                 550                 555                 560
146 Glu Asp Arg Ser Thr Gln Ala Ser Leu Glu Glu Ala Ile Leu Arg Pro
147             565                 570                 575
148 Leu Arg Val Gln Gly Lys Arg Ala Lys Arg Lys Leu Asp Tyr His Tyr
149             580                 585                 590
150 Ser Gln Pro Thr Pro Asn Arg Lys Lys Val Tyr Lys Thr Val Arg Trp
151             595                 600                 605
152 Gln Asp Glu Leu Ala Asp Arg Glu Ala Asp Phe Thr Pro Ser Glu Glu
153         610                 615                 620
154 Asp Gly Gly Thr Thr Ser Ser Asp Phe Asp Glu Asp Ile Asn Phe Asp
155 625                 630                 635                 640
```

```
156 Ile Gly Gly Asp Ser Gly Ile Val Asp Glu Leu Leu Gly Arg Pro Phe
157             645             650             655
158 Thr Thr Pro Ala Pro Val Arg Ile Val Met Asn Ala Leu Gln Glu Asp
159             660             665             670
160 Thr Pro Pro Gly Pro Ser Thr Val Phe Arg Pro Pro Thr Ser Ser Arg
161         675             680             685
162 Pro Leu Glu Thr Pro His Cys Arg Glu Ile Arg Ile Gly Ile Ala Gly
163     690             695             700
164 Ile Thr Ile Thr Leu Ser Leu Cys Gly Cys Ala Asn Ala Arg Ala Pro
165 705             710             715             720
166 Thr Leu Arg Ser Ala Thr Ala Asp Asn Ser Glu Ser Thr Gly Phe Lys
167             725             730             735
168 Asn Val Pro Asp Leu Arg Thr Asp Gln Pro Lys Pro Pro Ser Lys Lys
169             740             745             750
170 Arg Ser Cys Asp Pro Ser Glu Tyr Arg Val Ser Glu Leu Lys Glu Ser
171         755             760             765
172 Leu Ile Thr Thr Thr Pro Ser Arg Pro Arg Thr Ala Arg Arg Cys Ile
173     770             775             780
174 Arg Leu
175 785
```

VERIFICATION SUMMARY   DATE: 09/13/2006
PATENT APPLICATION: **US/10/591,725**   TIME: 11:08:54

Input Set : **A:\021080002U4.txt**
Output Set: **N:\CRF4\09132006\J591725.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number